

## COMPUTER NETWORK AND METHOD FOR TRANSMITTING AND AUTHENTICATING DATA IN THE COMPUTER NETWORK

### ABSTRACT

A computer network and a method for transmitting data through the computer network is provided. The computer network includes a first computer and a second computer both having a message sequence number stored therein. The method includes transmitting a message containing a message identifier, and encrypted message sequence number, and encrypted data from the first computer to the second computer. The method further includes decrypting in the encrypted message sequence number to authenticate the identity of the sending party who transmitted the message. Finally, the method includes the second computer initiating transmission of the message sequence number and the encrypted data to a third computer when the identity of the sending party is authenticated.